

# ARCHIVES OF PATHOLOGY

## EDITORIAL BOARD

LUDVIG HEKTOEN, Chicago, Chief Editor

JAMES EWING, New York

OSCAR T. SCHULTZ, Evanston, Ill.

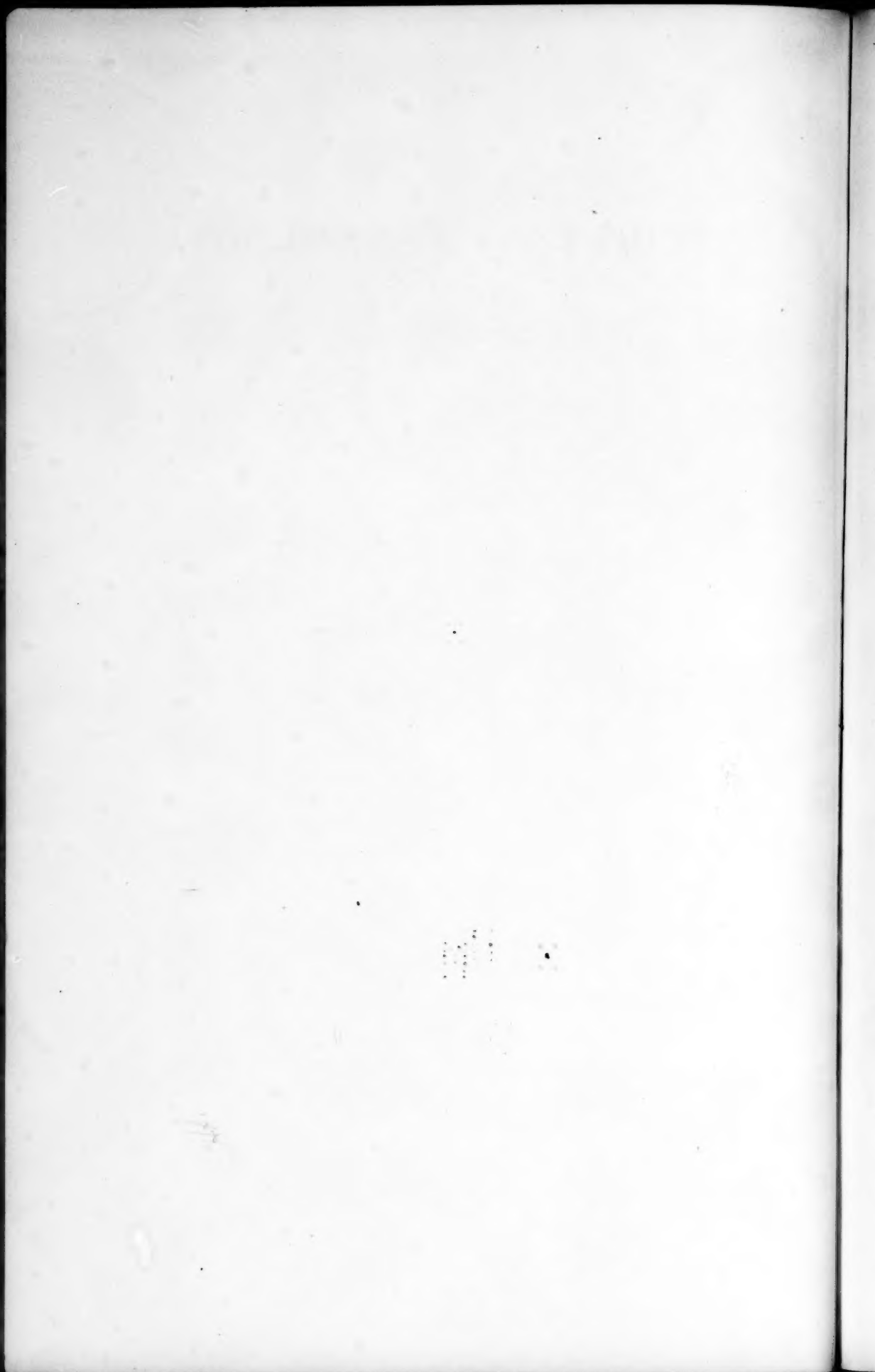
S. B. WOLBACH, Boston

ALFRED STENGEL, Philadelphia

FRANK R. MENNE, Portland, Ore.

Volume 26  
1938

PUBLISHERS  
AMERICAN MEDICAL ASSOCIATION  
CHICAGO, ILL.



# Medical A.M.A. CONTENTS OF VOLUME 26

JULY 1938. NUMBER 1

(Special Number Dedicated to Dr. Ludvig Hektoen)

	PAGE
Preface .....	1
Frontispiece .....	2
Ludvig Hektoen: A Biography and an Appreciation. Morris Fishbein, M.D., Chicago .....	3
Physicians Associated with Ludvig Hektoen from 1887 to 1938.....	19
Bibliography of the Writings of Ludvig Hektoen.....	20
Giant Cells in Cystitis. H. Gideon Wells, M.D., Chicago.....	32
Mode of Origin of Experimental Gastric Ulcer Induced by Cinchophen. J. P. Simonds, M.D., Chicago.....	44
Physicochemical State of Protoplasm. Martin H. Fischer, M.D., Pharm.D., Sc.D., and Werner J. Suer, M.S., Cincinnati.....	51
A New Streptococcus from Dental Caries. Ruth Tunnickliff, M.D., and Carolyn Hammond, M.A., Chicago.....	61
Isolation of Bacteria from Virus and Phage by a Serial Dilution Method. Edward C. Rosenow, M.D., Rochester, Minn.....	70
Acute Methyl Alcohol Poisoning: A Report of Twenty-Two Instances with Postmortem Examinations. Frank R. Menne, M.D., Portland, Ore.....	77
Pneumococcus Antitoxin. George F. Dick, M.D., and Alden K. Boor, Ph.D., Chicago .....	93
Preparation and Precipitin Reactions of Some Crystallized Ovalbumins. Arthur G. Cole, Ph.D., Chicago.....	96
Aortic Stenosis, Atresia and Adult Coarctation Associated with a Triloculate Heart. George J. Rukstinat, M.D., Chicago.....	102
Course of Experimental Tuberculous Infection in Guinea Pigs: Pathologic Changes Produced by Massive Intravenous Injections of Virulent and Avirulent Tubercle Bacilli. H. J. Corper, M.D., Denver.....	109
Origin and Pathology of Common Terminal Pneumonia. Virgil H. Moon, M.D., Philadelphia.....	132
Protection by Guaiac Against Destruction of Vitamin E by Rancidity of Fats of the Diet. Victor Johnson, Ph.D.; Anton J. Carlson, M.D., Ph.D., and Paul Bergstrom, M.D., Chicago.....	144
Use of Polyvalent Antipneumococcus Serum, Kyes. William E. Cary, Ph.D., M.D., Chicago.....	147
Leukoplakia of the Rectum. Vernon C. David, M.D., Chicago.....	151

# CONTENTS OF VOLUME 26

## JULY—Continued

	PAGE
Splenomegaly of the Banti Type: Report of a Case with Postmortem Observations Four Years After Splenectomy. Laurence E. Hines, M.D., and Bertram Fitzgerald, M.D., Chicago.....	155
Reactions to Blood Transfusion: An Attempt at Etiologic Classification; Therapy Based Thereon. Bernard Fantus, M.D.; Lindon Seed, M.D., and Elizabeth Schirmer, M.D., Chicago.....	160
Mixed Tumors of the Lung: So-Called Bronchial or Pulmonary Adenoma. Nathan A. Womack, M.D., and Evarts A. Graham, M.D., St. Louis....	165
Diverticulitis of the Colon: A Preliminary Report of a Study of Its Potential Role as a Focus of Infection in Systemic Disease. George H. Coleman, M.D., and Joseph A. Capps, M.D., Chicago.....	207
Symmetric Hemorrhagic Necrosis of the Cerebrum Following Primary Thrombosis of the Superior Longitudinal Sinus. Edwin F. Hirsch, M.D., Chicago .....	210
Bacillary Dysentery in Children: A Study of Three Hundred and Fifty-Six Cases from the Children's Division in the Cook County Hospital, Chicago. Maurice L. Blatt, M.D., and Noel G. Shaw, M.D., Chicago.....	216
Pseudomalignant and Apparently Inoperable Papillary Tumor of the Ovaries. Joseph L. Baer, M.D., Chicago.....	240
Hyperergic Inflammation. Frederick Stenn, M.D., Chicago.....	244
Fibrinolytic Titer in Diagnosis and Prognosis. W. H. Manwaring, M.D., and R. R. Madison, Ph.D., Stanford University, Calif.....	256
Hemochromatosis: Report of Thirty Cases in Which the Diagnosis Was Made During Life. Hugh R. Butt, M.D., and Russell M. Wilder, M.D., Rochester, Minn.....	262
Synovial Membrane and Fluid in Rheumatoid Arthritis. Edwin P. Jordan, M.D., Chicago.....	274
Guillain-Barré Syndrome and Related Conditions (Meningoradiculomyelitis and Meningomyelo-Encephalitis). Peter Bassoe, M.D., Chicago.....	289
Changes in the Brain from Thyrotoxicosis. I. B. Diamond, M.D., Chicago...	297
Concentration and Hydration of the Serum Colloids in Disease. Kamil Schulhof, M.D., Chicago.....	304
Clinical Study of Epidemic Poliomyelitis. Luke W. Hunt, M.D., Chicago....	312
Critical Review of Methods for the Evaluation of Antiseptics. Paul G. Heineman, Ph.D., Albany, N. Y.....	320
Colloid (Paraphysal) Cyst of the Third Ventricle. Eugene F. Traut, M.D., and Eugene C. Piette, M.D., Chicago.....	327
Nontuberculous Disease of the Upper Lobes of the Lungs Simulating Tuberculosis. B. R. Lovett, M.D., Oak Terrace, Minn.....	330
Goiter and Malignant Growth of the Thyroid in the Dog. David J. Davis, M.D., Chicago.....	339
Mixed Tumors of the Lip. H. E. Eggers, M.D., Omaha.....	348

# CONTENTS OF VOLUME 26

## JULY—Continued

	PAGE
Cause and Surgical Relief of Sterility in Women. Arthur H. Curtis, M.D., Chicago .....	354
Immunologic Studies on Fractions of Red Blood Cells. Edna Delves, Ph.D., Chicago .....	359
Acute Endocarditis Caused by Bacterium Paratyphosum B. Jacob Meyer, M.D., and Katharine M. Howell, M.D., Chicago.....	368
Observations on Guinea Pigs Given Intracutaneous Injections of Tuberculous Exudates. Russell D. Herrold, M.D., and Carrie I. Woolsey, A.M., Chicago .....	374
Megakaryoblastic Myeloma with Crystalline Protein in the Renal Tubes: Report of a Case. F. D. Gunn, M.D., Winnetka, Ill., and Arthur E. Mahle, M.D., Chicago.....	377
Use of the Fluoroscope in Examination of College Students. Ruth E. Taylor, M.D., Chicago.....	387
Lymphoid Hyperplasia Associated with Thrombopenic Purpura. Laurence E. Cooley, M.D., Dubuque, Iowa.....	390
Sensitiveness to Insulin and Optimal Diets in Diabetes. Walter H. Nadler, M.D., Chicago.....	395
Clinical and Statistical Study of Sore Throat in Young Adults. Paul S. Rhoads, M.D., Evanston, Ill., and M. L. Afremow, M.D., Chicago.....	403
Atherosclerosis of the Coronary Arteries. Daniel J. Glomset, M.D., Des Moines, Iowa.....	411
Epithelial Cyst of the Heart. Israel Davidsohn, M.D., Chicago.....	422
Sarcomatous Degeneration of Transplantable Mammary Adenofibroma of the White Rat. Ludwig A. Emge, M.D., San Francisco.....	429
Crystalline Bence Jones Proteins. Arthur E. Mahle, M.D.; Lindon Seed, M.D., and William H. Welker, Ph.D., Chicago.....	441

## AUGUST 1938. NUMBER 2

Cholecystitis and Hypertrophy of the Muscularis of the Gallbladder. Knowles B. Lawrence, M.D., and Shields Warren, M.D., Boston.....	449
Experimental Hypercholesteremia in Dogs. Warren C. Corwin, M.D., Rochester, Minn.....	456
Destruction of the Ganglion Cell in the Infant Brain. C. R. Tuthill, M.D., Staten Island, N. Y.....	463
Tooth Ring Analysis: IV. Neonatal Dental Hypoplasia; Analysis of the Teeth of an Infant with Injury of the Brain at Birth. Isaac Schour, D.D.S., Ph.D., and Rudolf Kronfeld, M.D., D.D.S., Chicago.....	471
Comparison of Cutaneous Lesions Produced in Rabbits by Intracutaneous Inoculation of Spirochetes from Yaws and Syphilis. Henry W. Ferris, M.D., and Thomas B. Turner, M.D., New York.....	491

# CONTENTS OF VOLUME 26

## AUGUST—Continued

	PAGE
New and Simple Method for the Detection of Blood by Heating. A. M. Moody, M.D., San Francisco; Frederick Proescher, M.D., San Jose, Calif., and Jesse L. Carr, M.D., San Francisco.....	501
Pathologic Anatomy of Hypophysis and Adrenals in Anencephaly. D. Murray Angevine, M.D., New York.....	507
Case Reports:	
Occlusion of the Entire Inferior Vena Cava: Report of a Case with a Review of the Subject. A. L. Sparks, M.D., and Herbert Fox, M.D., Cleveland .....	519
Syphilis of the Heart and Pericardium. Emmerich von Haam, M.D., and Michael A. Ogden, M.D., Columbus, Ohio.....	525
Laboratory Methods and Technical Notes:	
A Tray for Dehydration, Clearing and Paraffin Impregnation of Large Quantities of Tissue. Harold Wood, M.D., Charleston, S. C.....	532
General Review:	
Subdural Hematoma. A. B. Baker, M.D., Minneapolis.....	535
Notes and News.....	560
Abstracts from Current Literature.....	561
Society Transactions:	
New York Pathological Society.....	582
New York Pathological Society and New York Gastroenterological Association .....	587
Chicago Pathological Society.....	593
Buffalo Pathological Society.....	598
Books Received.....	602

## SEPTEMBER 1938. NUMBER 3

Giant Follicular Lymphadenopathy With or Without Splenomegaly: Its Transformation into Polymorphous Cell Sarcoma of the Lymph Follicles and Its Association with Hodgkin's Disease, Lymphatic Leukemia and an Apparently Unique Disease of the Lymph Nodes and Spleen—a Disease Entity Believed Heretofore Undescribed. Douglas Symmers, M.D., New York.	603
Histology of the Bone Marrow in Aplastic Anemia. C. P. Rhoads, M.D., and D. K. Miller, M.D., New York.....	648
Incidence of Mild Degrees of Atrophy in the Fasciculus Gracilis. Donald Duncan, Ph.D., Galveston, Texas.....	664
Systemic Proliferation of the Reticuloendothelial System (Reticuloendotheliosis): Report of a Case and Comments on the Literature. Milton S. Sacks, M.D., Baltimore.....	676
Attraction of Human Polymorphonuclear Leukocytes by Tuberculo-protein. William B. Wartman, M.D., Cleveland.....	694
Historical Review:	
Metchnikoff's Contribution to Pathology. B. M. Fried, M.D., New York	700



# CONTENTS OF VOLUME 26

## SEPTEMBER—Continued

	PAGE
Case Reports:	
Primary Rhabdomyoma of the Heart with Sarcomatous Extensions. C. P. Larson, M.D., and J. A. Sheppard, B.Sc., Fort Steilacoom, Wash..	717
Syphilis of Pueblo Skull Before 1350. Henri Stearns Denninger, M.D., Glendale, Ariz. ....	724
Laboratory Methods and Technical Notes:	
A Combined Gram-Methyl Green-Pyronine Stain for Formaldehyde-Fixed Tissue. James R. Lisa, M.D., New York.....	728
Notes and News.....	730
Abstracts from Current Literature.....	731
Society Transactions:	
New England Pathological Society.....	751
New York Pathological Society.....	753
Chicago Pathological Society.....	755
Book Reviews.....	759
Books Received.....	764

## OCTOBER 1938. NUMBER 4

Cerebral Lesions in Hypoglycemia: II. Some Possibilities of Irrevocable Damage from Insulin Shock. A. B. Baker, M.D., Minneapolis.....	765
Experimental Production of Tumors in the Brains of White Rats. Arthur Weil, M.D., Chicago.....	777
Medulloblasts of the Infant Brain. C. R. Tuthill, M.D., Staten Island, N. Y..	791
Cytologic Changes in the Skin of Mice During Application of Carcinogenic Agents. Robert C. Page, M.D., Rochester, Minn.....	800
Latent Period in Growth of Spontaneous Mammary Carcinoma in Female Mice of the A Strain. Leonell C. Strong, Ph.D., New Haven, Conn....	814
Cardiovascular and Other Lesions in Calves Fed Diets Low in Magnesium. L. A. Moore, M.S.; E. T. Hallman, D.V.M., and L. B. Sholl, D.V.M., East Lansing, Mich.....	820
Frequency with Which Syphilitic Lesions Are Encountered in Postmortem Examinations. E. T. Bell, M.D., Minneapolis.....	839
A Pigmented Adenoma of the Adrenal. Margaret R. Baker, M.D., Akron, Ohio .....	845
Major Duodenal Papilla: Variations of Pathologic Interest and Lesions of the Mucosa. Archie H. Baggenstoss, M.D., Rochester, Minn.....	853
Case Reports:	
Cystic Lymphangiectasia of the Adrenal. S. Milton Rabson, M.D., New York, and Edward F. Zimmerman, M.D., Wichita, Kan.....	869
Generalized Essential Xanthomatosis (Type Niemann-Pick) Associated with Primary Carcinoma of the Liver in an Infant. Harold Wood, M.D., Boston.....	873

# CONTENTS OF VOLUME 26

## OCTOBER—Continued

Laboratory Methods and Technical Notes:	PAGE
Perforated Spoons for Handling Tissue Sections (Frozen, Paraffin and Pyroxylin). George W. Lubinsky, A.B., New York.....	882
Notes and News.....	884
Abstracts from Current Literature.....	885
Society Transactions:	
Pathological Society of Philadelphia.....	904
New England Pathological Society.....	908
New York Pathological Society.....	912
Book Reviews .....	920
Books Received .....	922

## NOVEMBER 1938. NUMBER 5

Carbon Tetrachloride Poisoning: A Study of Stages of Hepatic Damage and Repair in Man. Thomas M. Peery, M.D., Washington, D. C....	923
Calcification of Hyaline Cartilage in Man. B. Falconer, Lic.Med., Stockholm, Sweden .....	942
Tissue Reactions to Natural Oils and Fractions Thereof. George M. Hass, M.D., Boston .....	956
Effect of a Primary Pulmonary Tuberculous Lesion (BCG) on Experimental Pulmonary Tuberculosis in Rabbits. B. J. Clawson, M.D., Minneapolis .....	966
Morphologic Study of the Reactivity of Mouse Sarcoma 180 to Bacterial Filtrates. Isadore E. Gerber, M.D., and Alice Ida Bernheim, M.D., New York .....	971
Effect of Sympathectomy on the Vasa Vasorum of the Rat. J. Q. Griffith Jr., M.D.; C. J. Zinn, M.D., and B. I. Comroe, M.D., with the Technical Assistance of R. Campbell, Philadelphia.....	984
Experimental Gastric Ulcer (Pitressin Episodes). A. J. Nedzel, M.D., Chicago .....	988
Pathologic Observations on the Adenomatous Lesion of the Stomach in Mice of Strain I. Harold L. Stewart, M.D., and H. B. Andervont, Sc.D., Boston .....	1009
Cirrhosis of the Liver in Rabbits with Continued Chloroform Poisoning and with Associated Syphilitic Infection. Henry W. Ferris, M.D., New York .....	1023
Hyperparathyroidism Secondary to Experimental Renal Insufficiency. Walter J. Highman Jr., Ch.E., and Bengt Hamilton, M.D., Chicago.....	1029
Case of Primary Reticulum Cell Sarcoma of the Brain: Relationship of Microglia Cells to Histiocytes. Charles L. Yuile, M.D., Boston.....	1036



# CONTENTS OF VOLUME 26

## NOVEMBER—Continued

	PAGE
Erythroblasts in the Chorionic Blood Vessels of Human Embryos. Béla Halpert, M.D., and Joseph Stasney, M.D., New Orleans.....	1045
Metastatic Calcification in a Case of Carcinoma of the Breast. John W. Egoville, M.D., Philadelphia.....	1047
Case Reports:	
Tularemia in an Infant with Extensive Intestinal Lesions. Henry C. Allen, M.D., and Margaret G. Smith, M.D., St. Louis.....	1052
Congenital Absence of the Gallbladder. G. Kasten Tallmadge, M.D., Ph.D., Milwaukee .....	1060
Laboratory Methods and Technical Notes:	
The Spalteholz Clearing Method Applied to the Determination of Carcinomatous Metastases in Regional Lymph Nodes. Samuel H. Klein, M.D., and Tobias Weinberg, M.D., New York.....	1063
Notes and News.....	1065
Abstracts from Current Literature.....	1066
Society Transactions:	
Buffalo Pathological Society.....	1082
Obituaries:	
Earl Baldwin McKinley.....	1085
Book Reviews .....	1090
Books Received .....	1092

## DECEMBER 1938. NUMBER 6

Iodine Balance in Exophthalmic Goiter. Italo D. Puppel, M.D., and George M. Curtis, Ph.D., M.D., Columbus, Ohio.....	1093
Experimental Carbon Tetrachloride Poisoning in the Cat: II. The Influence of Ligation of Single Bile Ducts. Harold L. Stewart, M.D., Boston, and A. Cantarow, M.D., Philadelphia.....	1121
An Aneurysm of a Coronary Artery. K. D. Manohar, M.D., Bombay, India .....	1131
Postmortem Blood Chemical Determinations: A Comparison of Chemical Analyses of Blood Obtained Post Mortem with Degrees of Renal Damage Found at Autopsy. Robert C. Hamilton, M.D., Pittsburgh....	1135
Effect of Vitamin D <sub>2</sub> (Calciferol) on the Dog. Norbert Goormaghtigh, M.D., and Hans Handovsky, M.D., Ghent, Belgium.....	1144
Hydrolysis of Esters in the Intercellular Medium: An Experimental Study. George M. Hass, M.D., Boston.....	1183
Intercellular Transformations of Unsaturated Fatty Acids and Esters: An Experimental Study. George M. Hass, M.D., Boston.....	1196
Effects of Anterior Pituitary Implants and Extracts on Epiphyses and Joints of Immature Female Guinea Pigs. Martin Silberberg, M.D., and Ruth Silberberg, M.D., St. Louis.....	1208

# CONTENTS OF VOLUME 26

## DECEMBER—Continued

	PAGE
Case Reports:	
Multiple Aneurysmal Formations Associated with Rheumatic Carditis. Antonio Rottino, M.D., New York.....	1226
Atrophy of the Pancreas with Extreme Fatty Metamorphosis of the Liver and Steatorrhea. Edgar H. Norris, M.D.; Archie H. Beard, M.D., and Louis S. Gerber, B.S., Minneapolis.....	1234
Notes and News.....	1245
Abstracts from Current Literature.....	1246
Society Transactions:	
New England Pathological Society.....	1268
Book Reviews .....	1272
Books Received .....	1278
General Index .....	1279